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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/775,879

DATE: 07/26/2001

TIME: 09:39:18

Input Set : A:\22250003seqlist.txt

Output Set: N:\CRF3\07262001\I775879.raw

ENTERED

3 <110> APPLICANT: Choe, Sunghwa  
4 Feldmann, Kenneth A  
6 <120> TITLE OF INVENTION: Dwf7 MUTANTS  
8 <130> FILE REFERENCE: 2225-0003  
10 <140> CURRENT APPLICATION NUMBER: 09/775,879  
11 <141> CURRENT FILING DATE: 2001-02-02  
13 <150> PRIOR APPLICATION NUMBER: 60/179,901  
14 <151> PRIOR FILING DATE: 2000-02-02  
16 <160> NUMBER OF SEQ ID NOS: 25  
18 <170> SOFTWARE: PatentIn Ver. 2.0  
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47 <220> FEATURE:  
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70 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer S5D\_2F  
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91 <220> FEATURE:  
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113 <220> FEATURE:  
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119 <210> SEQ ID NO: 10  
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121 <212> TYPE: DNA  
122 <213> ORGANISM: Artificial Sequence  
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157 <220> FEATURE:
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175 <211> LENGTH: 364
176 <212> TYPE: PRT
177 <213> ORGANISM: delta-7 sterol C-5 desaturase (Candida glabrata)
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181 1 5 10 15
183 Tyr Ala Lys Ile Ala Pro Val Glu Leu Gln Arg Gly Ile Asp Asp Ser
184 20 25 30
186 Leu Val Asn Ala Leu Ser Leu Asn Lys Ile Val Ser Asn Ser Thr Leu
187 35 40 45
189 Leu His Glu Thr Leu Ser Ile Thr Asn Ser Leu Lys Arg Val Asn Lys
190 50 55 60
192 Asp Val Tyr Gly Leu Thr Pro Phe Leu Phe Asp Phe Thr Glu Lys Thr
193 65 70 75 80
195 Tyr Ala Ser Leu Leu Pro Arg Asn Asn Leu Ile Arg Glu Phe Phe Ser
196 85 90 95
198 Leu Trp Ala Val Val Thr Val Phe Gly Leu Leu Leu Tyr Leu Ile Thr
199 100 105 110
201 Ala Ser Leu Ser Tyr Val Phe Val Phe Asp Arg Thr Ile Phe Asn His
202 115 120 125
204 Pro Lys Tyr Leu Lys Asn Gln Met Tyr Leu Glu Ile Lys Leu Ala Val
205 130 135 140

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207 Ser Ala Ile Pro Thr Met Ser Leu Leu Thr Val Pro Trp Phe Met Leu
208 145          150          155          160
210 Glu Leu Asn Gly Tyr Ser Lys Leu Tyr Tyr Asp Val Asp Trp Glu His
211          165          170          175
213 His Gly Leu Arg Lys Leu Leu Ile Glu Tyr Ala Thr Phe Ile Phe Phe
214          180          185          190
216 Thr Asp Cys Gly Ile Tyr Leu Ala His Arg Trp Leu His Trp Pro Arg
217          195          200          205
219 Val Tyr Lys Ala Leu His Lys Pro His His Lys Trp Leu Val Cys Thr
220          210          215          220
222 Pro Phe Ala Ser His Ala Phe His Pro Val Asp Gly Tyr Phe Gln Ser
223 225          230          235          240
225 Leu Ser Tyr His Ile Tyr Pro Met Ile Leu Pro Leu His Lys Ile Ser
226          245          250          255
228 Tyr Leu Ile Leu Phe Thr Phe Val Asn Phe Trp Ser Val Met Ile His
229          260          265          270
231 Asp Gly Gln His Met Ser Asn Asn Pro Val Val Asn Gly Thr Ala Cys
232          275          280          285
234 His Thr Val His His Leu Tyr Phe Asn Tyr Asn Tyr Gly Gln Phe Thr
235          290          295          300
237 Thr Leu Trp Asp Arg Leu Gly Gly Ser Tyr Arg Arg Pro Glu Asp Ser
238 305          310          315          320
240 Leu Phe Asp Pro Lys Leu Lys Met Asp Lys Lys Val Leu Glu Lys Gln
241          325          330          335
243 Ala Arg Glu Thr Ala Ala Tyr Ile Gln Glu Val Glu Gly Asp Asp Thr
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246 Asp Arg Val Tyr Asn Thr Asp Lys Lys Lys Thr Asn
247          355          360
250 <210> SEQ ID NO: 16
251 <211> LENGTH: 365
252 <212> TYPE: PRT
253 <213> ORGANISM: delta-7 sterol C-5 desaturase (Saccharomyces cerevisiae)
255 <400> SEQUENCE: 16
256 Met Asp Leu Val Leu Glu Val Ala Asp His Tyr Val Leu Asp Asp Leu
257 1 5 10 15
259 Tyr Ala Lys Val Leu Pro Ala Ser Leu Ala Ala Asn Ile Pro Val Lys
260 20 25 30
262 Trp Gln Lys Leu Leu Gly Leu Asn Ser Gly Phe Ser Asn Ser Thr Ile
263 35 40 45
265 Leu Gln Glu Thr Leu Asn Ser Lys Asn Ala Val Lys Glu Cys Arg Arg
266 50 55 60
268 Phe Tyr Gly Gln Val Pro Phe Leu Phe Asp Met Ser Thr Thr Ser Phe
269 65 70 75 80
271 Ala Ser Leu Leu Pro Arg Ser Ser Ile Leu Arg Glu Phe Leu Ser Leu
272 85 90 95
274 Trp Val Ile Val Thr Ile Phe Gly Leu Leu Leu Tyr Leu Phe Thr Ala
275 100 105 110
277 Ser Leu Ser Tyr Val Phe Val Phe Asp Lys Ser Ile Phe Asn His Pro
278 115 120 125

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280 Arg Tyr Leu Lys Asn Gln Met Ala Met Glu Ile Lys Leu Ala Val Ser
281      130      135      140
283 Ala Ile Pro Trp Met Ser Met Leu Thr Val Pro Trp Phe Val Met Glu
284 145      150      155      160
286 Leu Asn Gly His Ser Lys Leu Tyr Met Lys Ile Asp Tyr Glu Asn His
287      165      170      175
289 Gly Val Arg Lys Leu Ile Ile Glu Tyr Phe Thr Phe Ile Phe Phe Thr
290      180      185      190
292 Asp Cys Gly Val Tyr Leu Ala His Arg Trp Leu His Trp Pro Arg Val
293      195      200      205
295 Tyr Arg Ala Leu His Lys Pro His His Lys Trp Leu Val Cys Thr Pro
296      210      215      220
298 Phe Ala Ser His Ser Phe His Pro Val Asp Gly Phe Leu Gln Ser Ile
299 225      230      235      240
301 Ser Tyr His Ile Tyr Pro Leu Ile Leu Pro Leu His Lys Val Ser Tyr
302      245      250      255
304 Leu Ile Leu Phe Thr Phe Val Asn Phe Trp Thr Val Met Ile His Asp
305      260      265      270
307 Gly Gln Tyr Leu Ser Asn Asn Pro Ala Val Asn Gly Thr Ala Cys His
308      275      280      285
310 Thr Val His His Leu Tyr Phe Asn Tyr Asn Tyr Gly Gln Phe Thr Thr
311      290      295      300
313 Leu Trp Asp Arg Leu Gly Gly Ser Tyr Arg Arg Pro Asp Asp Ser Leu
314 305      310      315      320
316 Phe Asp Pro Lys Leu Arg Asp Ala Lys Glu Thr Trp Asp Ala Gln Val
317      325      330      335
319 Lys Glu Val Glu His Phe Ile Lys Glu Val Glu Gly Asp Asp Asn Asp
320      340      345      350
322 Arg Ile Tyr Glu Asn Asp Pro Asn Thr Lys Lys Asn Asn
323      355      360      365
326 <210> SEQ ID NO: 17
327 <211> LENGTH: 329
328 <212> TYPE: PRT
329 <213> ORGANISM: delta-7 sterol C-5 desaturase (Schizosaccharomyces pombe)
331 <400> SEQUENCE: 17
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336      20      25      30
338 Thr Ala Val Asn Ser Thr Thr Leu Gly Leu Ala Glu Lys Val Asn Phe
339      35      40      45
341 Ala Ile Thr Ser Gly Leu Leu Asp Arg Asn Asn Val Trp Arg Gln Phe
342      50      55      60
344 Thr Ser Leu Phe Leu Ile Thr Trp Ile Met Gly Thr Leu Ser Tyr Phe
345 65      70      75      80
347 Leu Ser Ala Ser Phe Ala Tyr Tyr Val Tyr Phe Asp Arg Glu Glu Ala
348      85      90      95
350 Arg Arg His Pro Lys Phe Leu Lys Asn Gln Glu His Leu Glu Leu Met
351      100      105      110

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